

CLAIMS

What is claimed is:

1. A panel inspection apparatus to inspect a display panel, comprising:
a panel supporting member to support the display panel;
a plurality of cameras, being spaced from the panel supporting member, provided to photograph the panel supported by the panel supporting member; and
a rotatable camera support to rotatably support at least one of the plurality of cameras.
2. The panel inspection apparatus according to claim 1, wherein the plurality of cameras further comprise:
a first camera provided to face the display panel from a direction perpendicular to the panel; and
a second camera provided to face the display panel at an acute angle to the display panel, and being spaced from the first camera.
3. The panel inspection apparatus according to claim 2, wherein the rotatable camera support further comprises:
a driving part to rotate the second camera;
a first bracket provided between the driving part and the first camera to support the first camera; and
a second bracket extending from the driving part to the second camera to support the second camera.
4. The panel inspection apparatus according to claim 3, wherein the second bracket supports and enables the second camera to rotate around an axis line of the first camera.
5. The panel inspection apparatus according to claim 4, wherein the driving part further comprises:
a driving motor with a rotational axis line aligned to the axis line of the first camera.
6. The panel inspection apparatus according to claim 4, wherein the second bracket is combined to the first bracket at an acute angle towards the panel supporting member.

7. The panel inspection apparatus according to claim 2, further comprising:
at least one additional rotatable camera support .

8. The panel inspection apparatus according to claim 7, wherein the second camera supported by the rotatable camera support is provided so as not to interfere with the first camera supported by an adjacent one of the rotatable camera supports while being rotated.

9. A panel inspection apparatus of a display panel, comprising:
a panel supporting member to support the display panel;
a plurality of cameras installed above the display panel;
a rotatable camera support to rotatably support at least one of the plurality of cameras;
and
a camera support member to support the rotatable camera support above the panel supporting member.

10. The panel inspection apparatus according to claim 9, wherein the camera support member supports the rotatable camera support a predetermined distance away from the panel supporting member.

11. The panel inspection apparatus according to claim 9, wherein the size of the display panel is not larger than the camera scope of each of the plurality of cameras.

12. The panel inspection apparatus according to claim 9, wherein the panel supporting member is shaped like a table.

13. The panel inspection apparatus according to claim 9, wherein the plurality of cameras further comprise:

a first camera provided to face the display panel from a direction perpendicular to the display; and

a second camera provided facing the display panel at an acute angle from the camera support and an axis line of the first camera.

14. The panel inspection apparatus according to claim 13, wherein the first camera is installed within a predetermined distance of the second camera.

15. The panel inspection apparatus according to claim 13, wherein an axis line of the second camera and the axis line of the first camera are separated by 30 degrees.

16. The panel inspection apparatus according to claim 3, wherein the driving part rotates both the first camera and the second camera.

17. The panel inspection apparatus according to claim 13, further comprising: a driving part to rotate the first camera and second camera.

18. The panel inspection apparatus according to claim 17, further comprising: a first bracket provided between the driving part and the first camera to support the first camera; and

a second bracket extending from the driving part to the second camera to support the second camera.

19. A panel inspection apparatus to inspect a display panel, comprising: a panel inspection desk provided to support the display panel; a plurality of first cameras; a plurality of second cameras; a plurality of rotatable camera supports provided to rotatably support and rotate the at least one of the plurality of first cameras and at least one of the plurality of second cameras; and a camera support member to support the plurality of rotatable cameras.

20. The panel inspection apparatus according to claim 19, wherein the at least one of the plurality of first cameras has an optical axis concurrent with an axis of rotation of the rotatable camera support.

21. The panel inspection apparatus according to claim 19, wherein the at least one of the plurality of second cameras rotates around the at least one of the plurality of first cameras, and

the at least one of the plurality of second cameras has an optical axis at an acute angle relative to that of the at least one of the plurality of first camera.